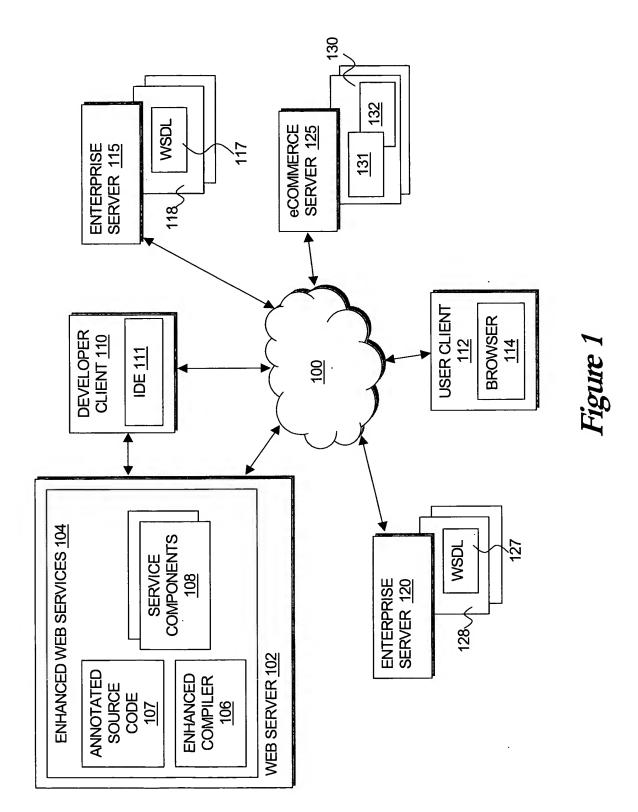
Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al. Appln. No.: Unknown Attorney: Sheldon R. M Appln. No.: Unknown Confirm No: Unknown Filed: Herewith

Sheldon R. Meyer Phone: (415) 362-3800 Express Mail No.: EV 386447462 US

Sheet 1 of 15



SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS Title:

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Sheet 2 of 15

	ItemList items;	// each basket will have its own item list
201 { 206 {	<pre>/* @Operation     * @Conversation Start */     void newBasket() { }</pre>	// creates a new item list
202 { 207 {	<pre>/* @Operation     * @Conversation Continue */     void addItem(Item i) { }</pre>	<pre>// continues an existing conversation // using the associated item list</pre>
203 { 208 {	<pre>/* @Operation     * @Conversation Finish */     void checkout(Payment p) { }</pre>	// finishes an existing conversation // and deletes the associated item list
204	<pre>/* @Operation     * @Conversation Finish     * @buffer */     void cancel() { }</pre>	// finishes an existing conversation // and deletes the associated item list
205	<pre>/* @Operation */ int activeBaskets() { }</pre>	// stateless method // returns number of baskets in use

lastname) String new java.text.SimpleDateFormat("yyyy-MM-dd HH:mm:ss") public String greeting (String firstname, Calendar.getInstance(TimeZone.getDefault()); " " + lastname sdf.format(cal.getTime()); + firstname + SimpleDateFormat sdf return "Hello" Calendar cal

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### Figure 3A

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.

Sheet 3 of 15

```
<m:greeting xmlns:m="http://www.company.com/app/mypackage/CreditRepor</pre>
                                                                                                                                                                                                                                                                                    soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
                                                                                                                                                                                                                       xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
                                                                                                                                                                                                                                                     xmlns:cgc="http://bea.com/SOAP/conversation"
POST /app/mypackage/CreditReport.jws HTTP/1.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                            <firstname>Jane</firstname>
                                                              Content-Type: text/xml; charset="utf-8"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <lastname>Doe</lastname>
                                                                                                                         SOAPAction: "Some-URI"
                                Host: www.company.com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     </m.greeting
                                                                                           Content-Length: 648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          soap:Body>
                                                                                                                                                                                                                                                                                                                                                   </soap:Header>
                                                                                                                                                                                                                                                                                                                                                                                   <soap:Body>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              </soap:Envelope>
                                                                                                                                                                                                                                                                                                                  <soap:Header>
                                                                                                                                                                                      <soap:Envelope
```

## Figure 3B

```
xmlns:m="http://www.company.com/app/mypackage/CreditReport.jws">
                                                                                                                                                                                                                                                                                                                                                          2001-08-15 16:18:04</result>
                                                                                                                                                                           soap:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
                                                                                                                                            xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
                                                                                                                                                                                                                                                                                                                                                            <re><result>Hello Jane Doe at</ri>
                               charset="utf-8"
                                                                                                                                                                                                                                                                                                                                                                                                 </m.greetingResponse>
                                                                                                                                                                                                                                                                                         <m:greetingResponse
                               Content-Type: text/xml;
                                                          Content-Length: 574
                                                                                                                                                                                                                                    </soap:Header>
                                                                                                                                                                                                                                                                                                                                                                                                                            </soap:Body>
                                                                                                                                                                                                     <soap:Header>
                                                                                                                                                                                                                                                                                                                                                                                                                                                         soap:Envelope>
HTTP/1.1 200 OK
                                                                                                                                                                                                                                                           <soap:Body>
                                                                                                                 <soap:Envelope
```

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# Figure 3C

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED

SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.

Sheet 4 of 15

```
<c:conversationID>4232-133214-3223132:42332-3144-2332251</c:conversationID>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"</p>
                                xmlns:c="http://openuri.org/soap/conversation/">
                                                                                                                                                                                http://original.com/foo/Callbacks.jwi
                                                                                                                                                                                                                     </c:defaultCallbackURL>
                                                                                                                                          <c:defaultCallbackURL>
                                                                                                                                                                                                                                                                                                                               <!-- contents omitted -->
                                                                                                                                                                                                                                                             </s:Header>
                                                                <s:Header>
                                                                                                                                                                                                                                                                                                                                                                                              </s:Envelope>
                                                                                                                                                                                                                                                                                                                                                               </s:Body>
                                                                                                                                                                                                                                                                                                 <s:Body>
```

#### Figure 4

Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Sheet 5 of 15

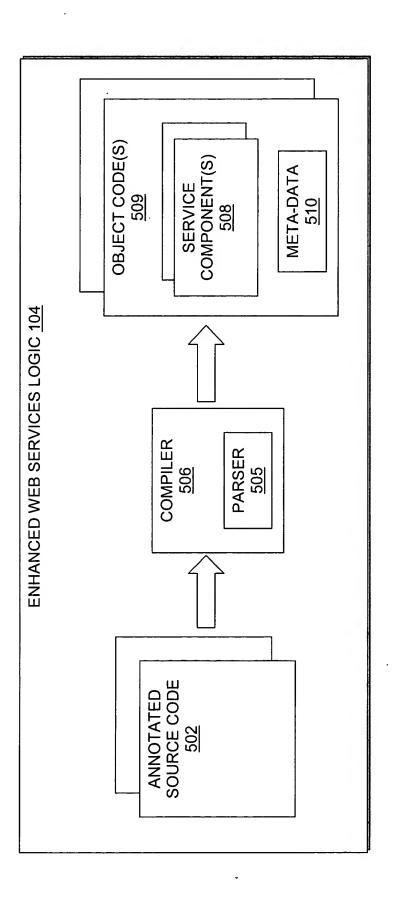


Figure 5

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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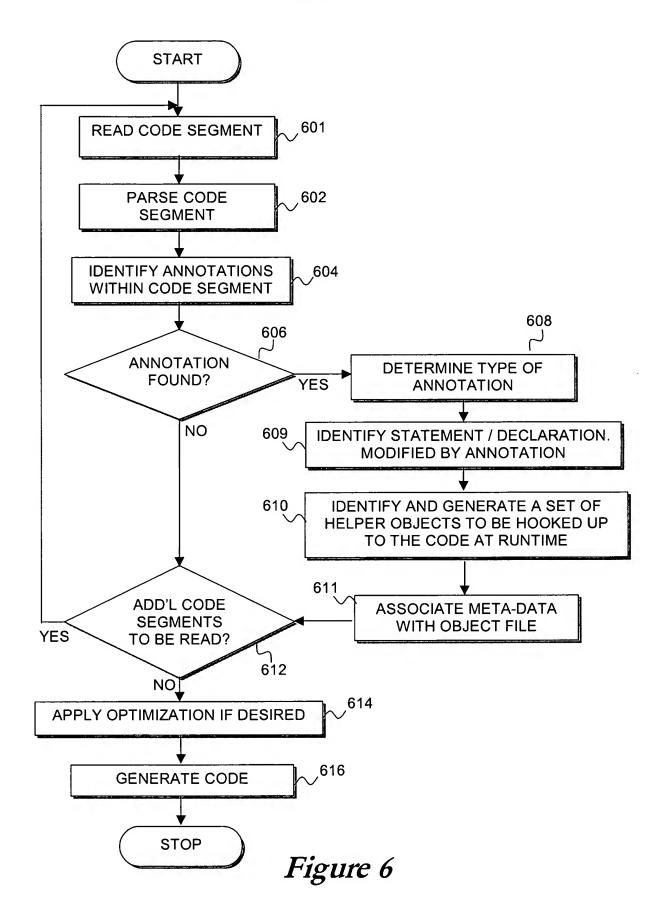
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Sheet 6 of 15



Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.

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Sheet 7 of 15

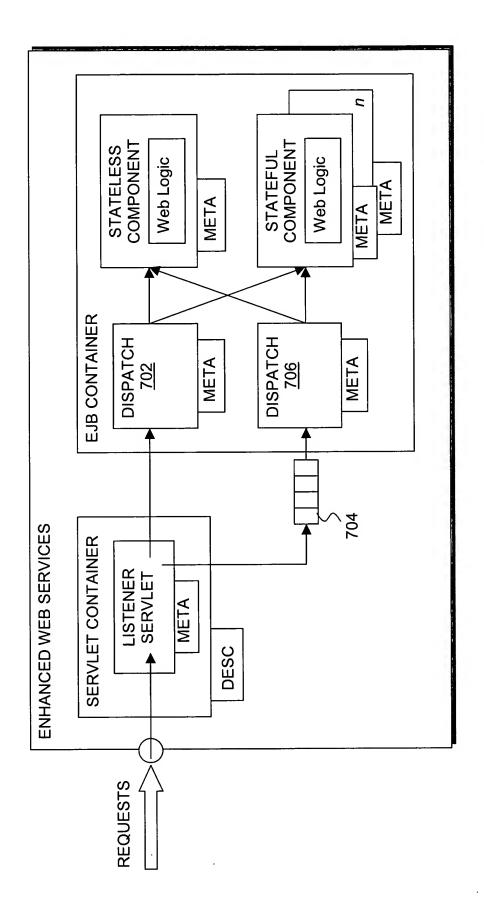


Figure 7

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Sheet 8 of 15

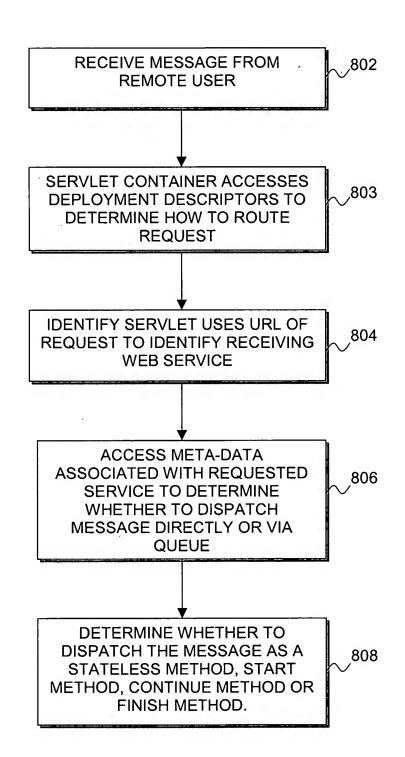


Figure 8

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

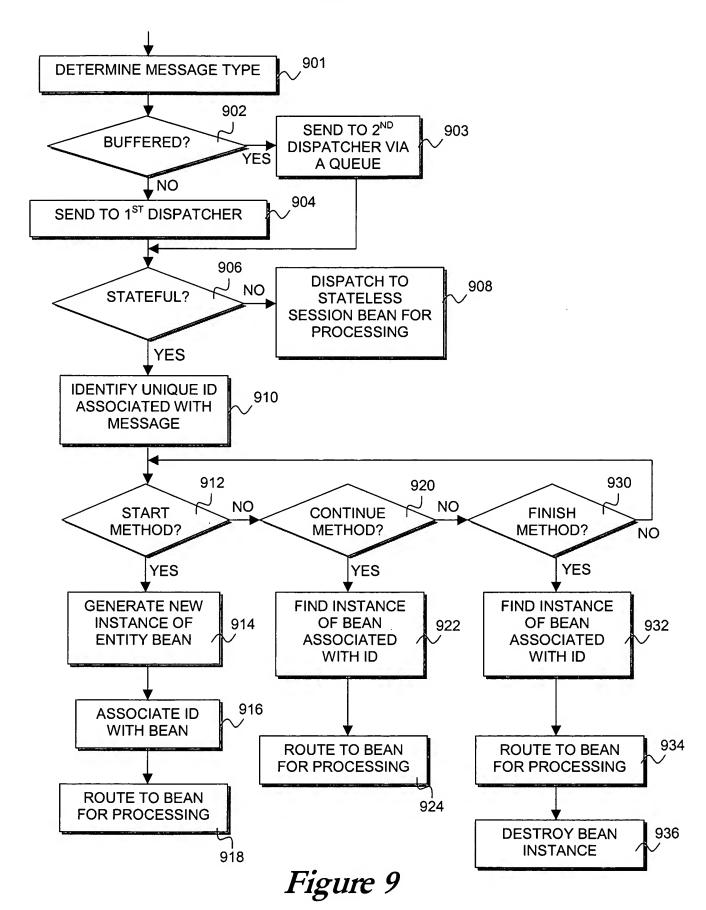
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Sheet 9 of 15



Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.

Appln. No.: Unknown Attorney: Sheldon R. Meyer
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Filed: Herewith Express Mail No.: EV 386447462 US

Sheet 10 of 15

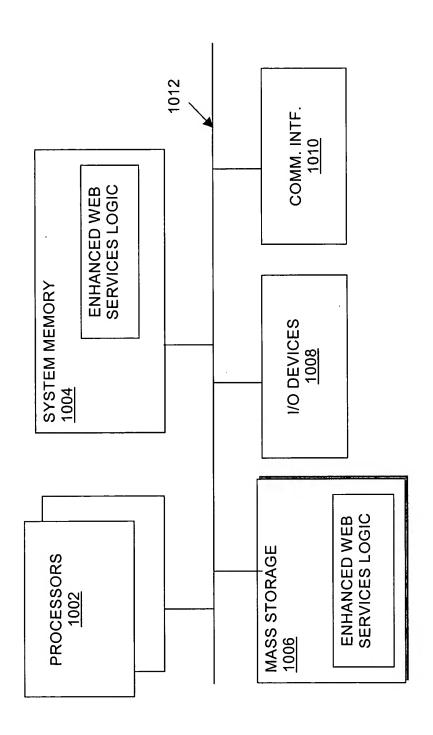


Figure 10

1000

SYSTEMS AND METHODS FOR CREATING NETWORK-BASED Title: SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Sheet 11 of 15

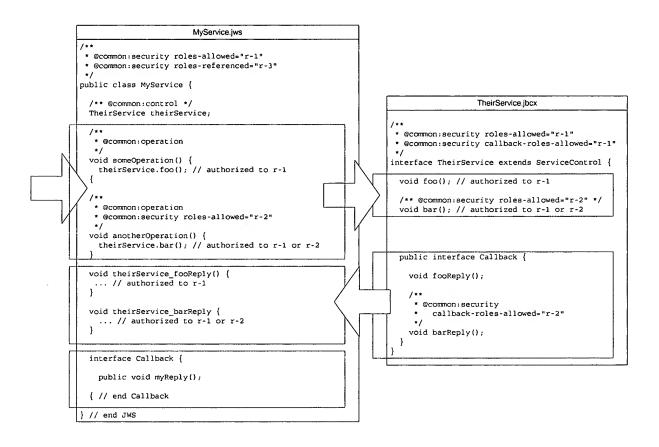


Figure 11

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Sheet 12 of 15

Using run-as="<start-user>" will cause the Subject that started the conversation to be bound to all continue|finish calls from the JW(X).

Invoke privileges on Control operations will be evaluated with respect to the roles granted to the starting Principal
 Form within collect Controls:

From within called Controls:
 (a) Any call to getCallerPrincipal() will return the starting Principal

(b) Any call to hadRole() will be evaluated with respect to the roles granted to the starting Principal

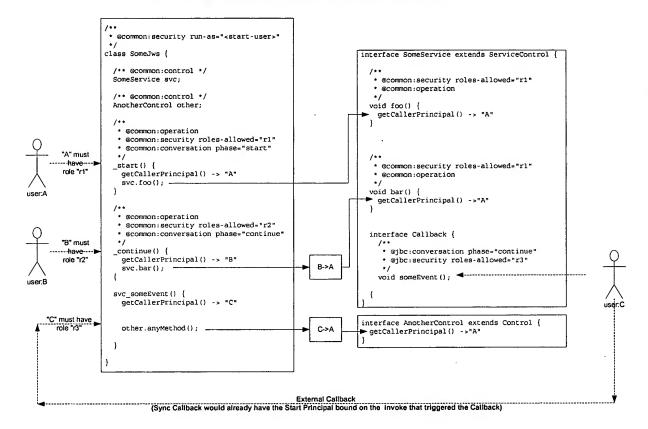


Figure 12

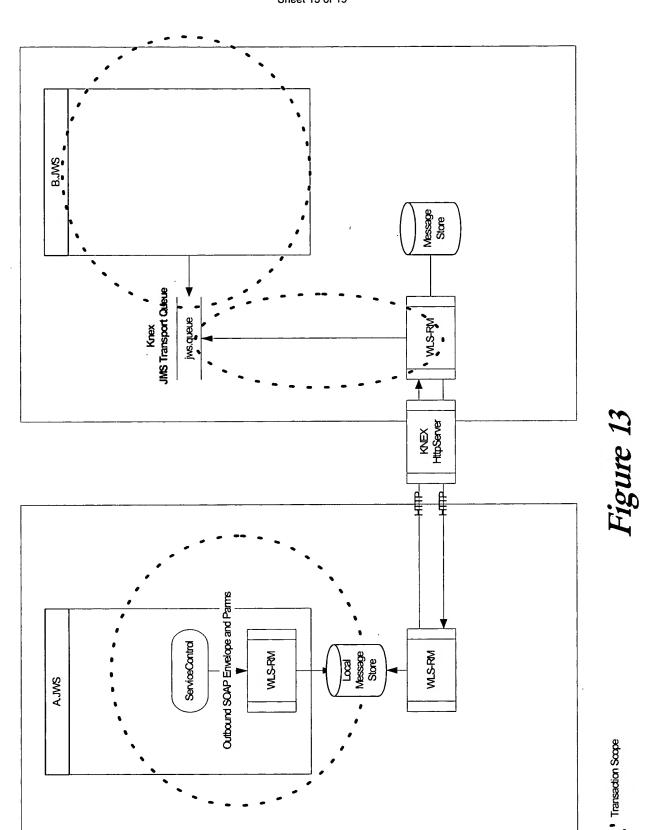
Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.

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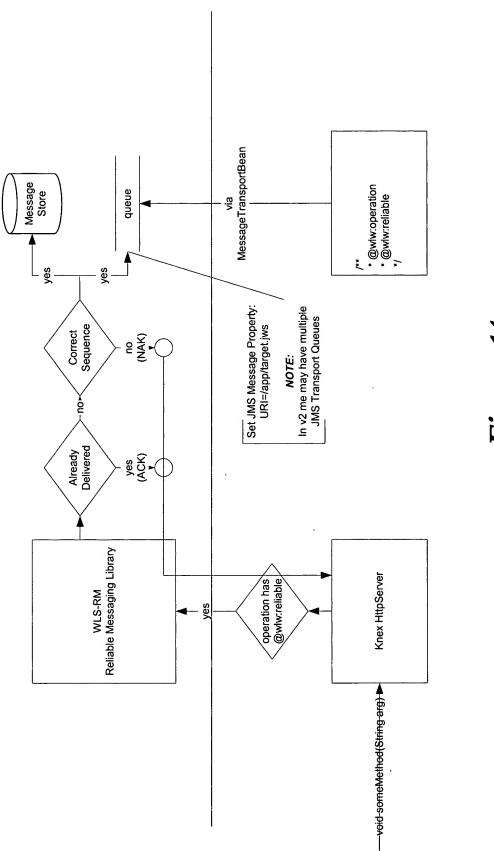
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Sheet 13 of 15



SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS

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Phone: (415) 362-3800
Express Mail No.: EV 386447462 US
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Title: SYSTEMS AND METHODS FOR CREATING NETWORK-BASED SOFTWARE SERVICES USING SOURCE CODE ANNOTATIONS Docket No.: BEAS-01445US1 SRM/DTX Inventor(s): Marvin et al.
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Sheet 15 of 15

```
public interface ServiceInterceptor {
   * Provides initialization data to the interceptor implementation. This method
   * will be called before any call to "handle" methods.
   * @param config configuration paramaters defined through config-data annotations
   * @param wsdl the definition for this service
 public void init(Map config, XMLInputStream wsdl);
   * The interface called from the knex runtime to allow top-level
   * containers to interrogate and/or manipulate the incoming XML
   * request. The request respresents the entire payload of the
   * request. This interface is invoked before any paramter-xml
   * maps are run.
   * @param xmlRequest The request that is targeted to an @operation
   * method.
   * @return an XMLInputStream that will be delivered to an @operation
   * method on the current service.
 public XMLInputStream handleRequest(XMLInputStream xmlRequest);
   * The interface called from the knex runtime to allow top-level
   * containers to interrogate and/or manipulate the outgoing XML
   * response. The response respresents the entire payload of the
   * response. This interface is invoked after any return-xml
   * maps have run.
   * @param xmlResponse The response that was generated by an @operation
   * method.
   * @return an InputStream that will be returned to the caller of the
 public XMLInputStream handleResponse(XMLInputStream xmlResponse);
   * The interface called from the knex runtime to allow top-level
   * containers to interrogate and/or manipulate the outgoing XML
   response. The response respresents the entire payload of the
   * response.
   * @param xmlResponse The response that was generated by an @operation
   * method.
   * @return an InputStream that will be returned to the caller of the
  public XMLInputStream handleFault(XMLInputStream xmlFault);
                                                         After destroy is called,
   * Called when the service instance is being removed.
   * none of the "handle" methods will be calls.
  public void destroy();
```